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(54) **GAS SEAL DEVICE**

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(57) Abstract:

PURPOSE: To provide the titled gas seal device exhibiting powerful sealability without reducing the internal pressure of a furnace by forming a suction port between slit-shaped ejection nozzles which are opposed to a material to be heated and arranged in two rows at specified intervals, and circulating the gas sucked in from the suction port by a fan to the ejection nozzles.

CONSTITUTION: The gas which is sucked in from suction ports 9a and 9b by operating a circulating fan 10 is forced into chambers 5a, 5b, 6a, and 6b, and ejected from ejection nozzles 7a, 8a, 7b, and 8b. Consequently, a gas current toward the suction port 9a from the nozzles 7a and 8b is produced on the upper surface of a material 2 to be heated, and a gas current toward the suction port 9b from both nozzles 7b and 8b is also generated on the lower surface of the material 2 to be heated. Consequently, powerful sealing action is exhibited by said gas currents. Meanwhile, in the figure, 1 shows the furnace body, and 11 shows wind-direction guide plates provided inside of an inlet and outlet port 12 of the material to be heated in the throat 4.

